

Automated Traffic Data Collection Report

DECEMBER 2002



Washington State Department of Transportation

In cooperation with the
United States Department of Transportation
Federal Highway Administration

WASHINGTON STATE
DEPARTMENT OF TRANSPORTATION

AUTOMATED TRAFFIC DATA COLLECTION REPORT

PLANNING AND CAPITAL PROGRAM MANAGEMENT

TRANSPORTATION DATA OFFICE

HIGHWAY USAGE BRANCH

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DECEMBER 2002

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EXECUTIVE SUMMARY

This report is based upon data that was processed through **Transportation Information and Planning Support System (TRIPS)**. The data is collected monthly from several sources; automated traffic recorders (ATRs), the Washington State Ferry System and the Oregon State Department of Transportation. For the site to be considered for this report, the site had to be collecting data in the same month for two consecutive years. Processed data is compared collectively to same month during the previous one year to show a two-year trend. The comparative analysis before the report is based on three-year data trends.

RURAL

The vehicle volumes for current month (December) of comparable ATRs are up over December 2001 by 5% and 9% over December 2000. The total volume cumulative for the first twelve months at comparable rural sites is up 3% over this time last year and 5% over data collected in 2000.

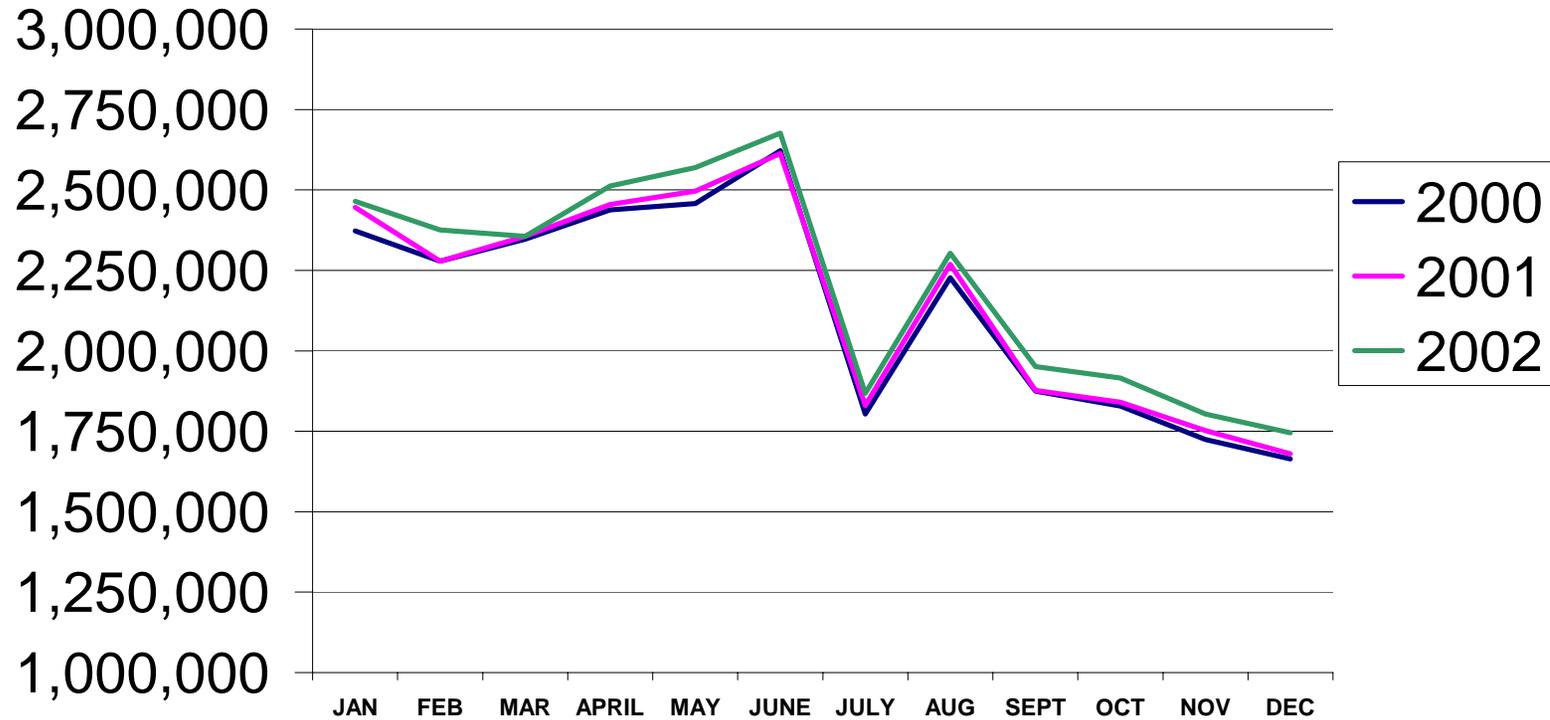
URBAN

The vehicle volumes for current month (December) of comparable site data are up over December of 2001 by 3% and 3% over December 2000. The total cumulative volume for the first twelve months at comparable urban sites is up 2% over this time last year and 3% over data collected in 2000.

COMBINED

As a whole, according to the data collected and reported, the vehicle volumes for all comparable sites (Urban, Rural), January through December of 2002, have increased over January through December 2001 by 2% and have increased by 3% when compared to January through December of 2000.

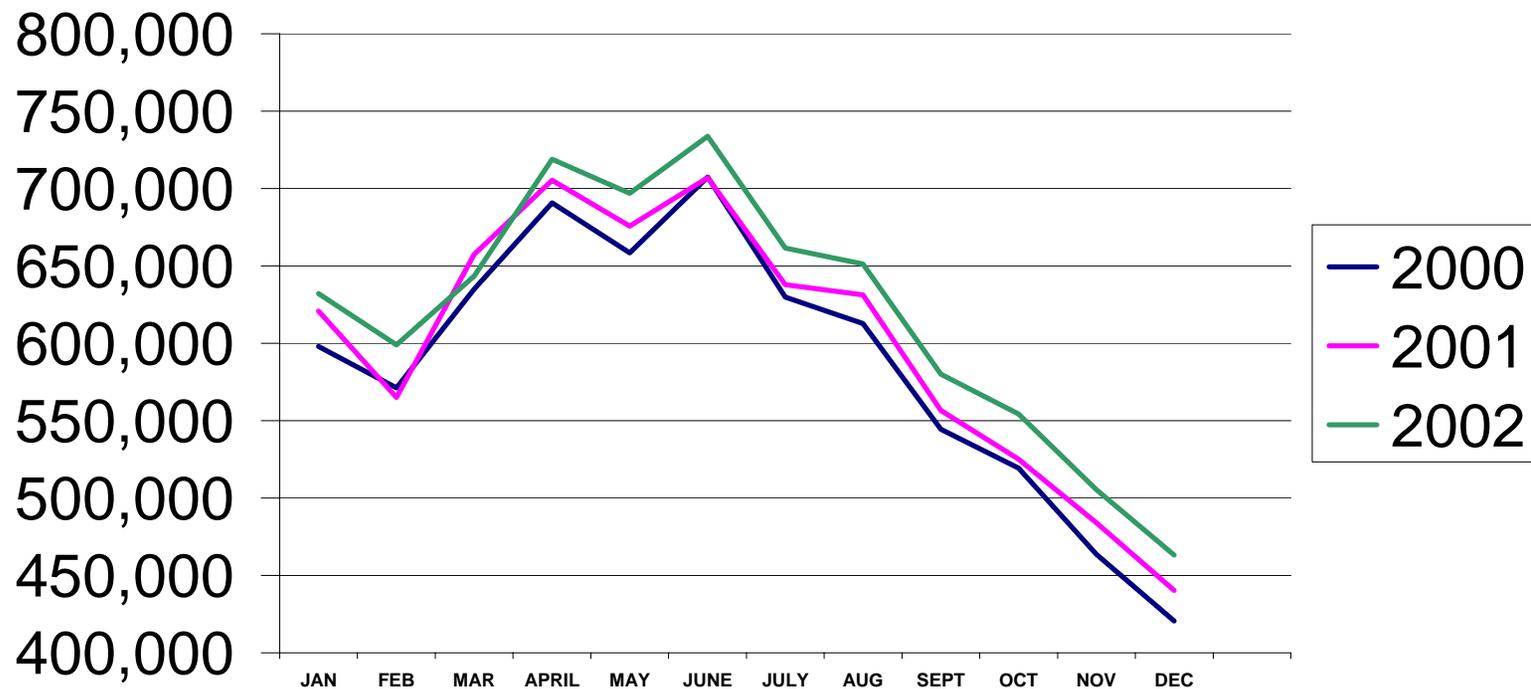
COMBINED SITES TREND



This graph shows a three-year trend of “Rural/Urban” sites. The data was collected from 70 of the same sites each month showing a combined Average Daily Traffic trend for three consecutive years. The downward trend in July reflects the normal summertime trend associated with motorists taking vacations and resulting in less daily commute traffic.

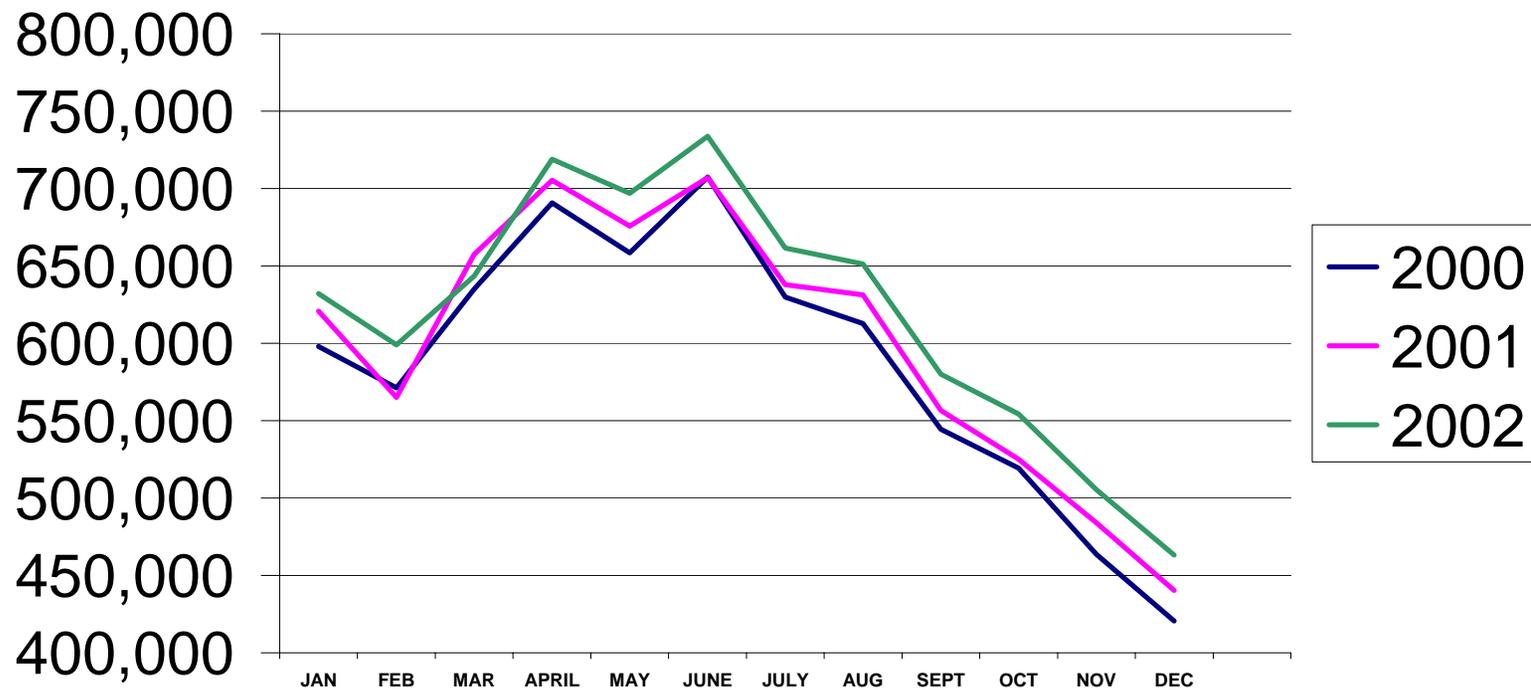
Comparing the combination of Urban and Rural site data shows the same traffic volume trends in comparative sites. The fluctuations of vehicle volumes for January through December are normal.

RURAL SITES TREND



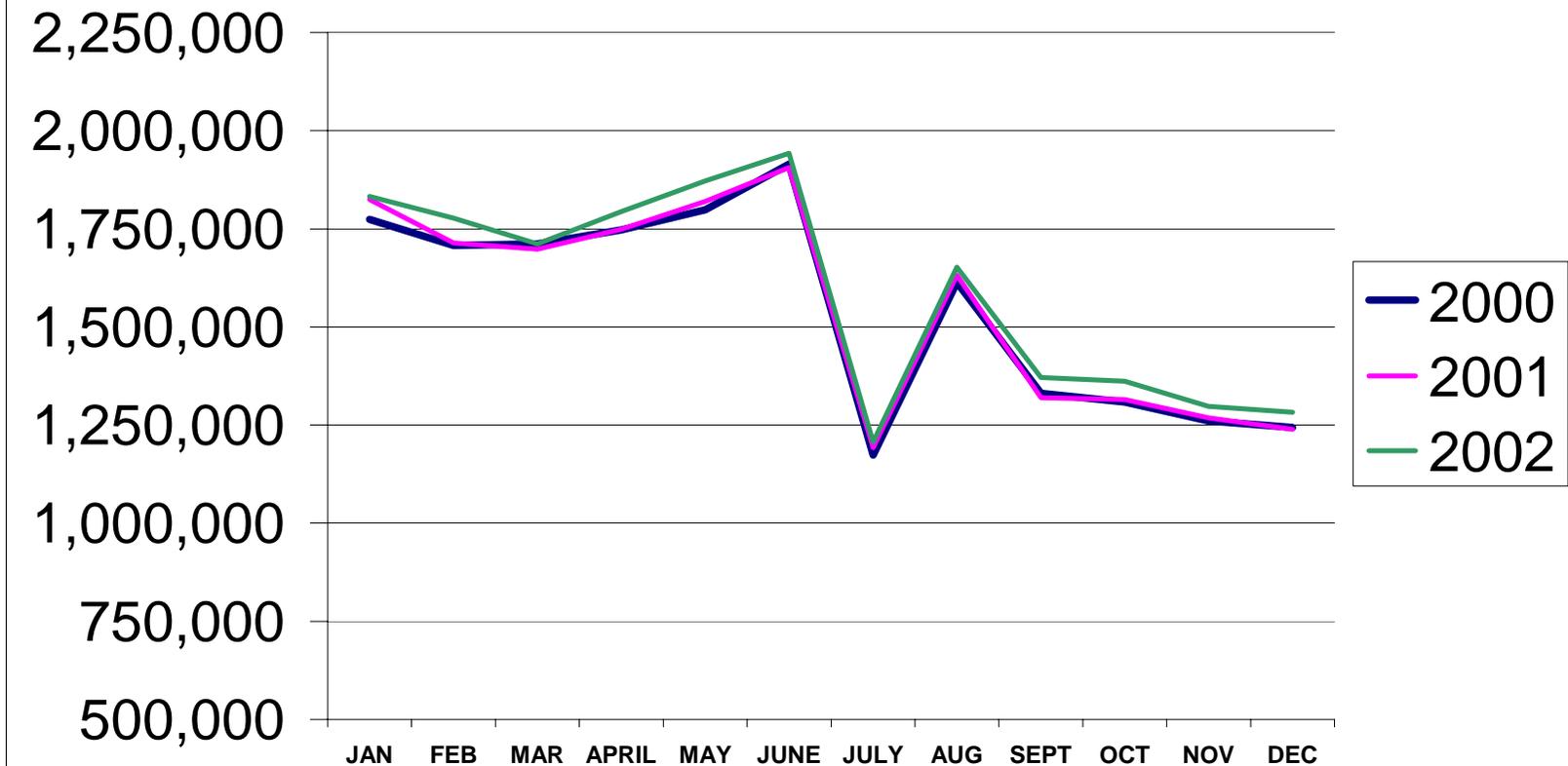
This graph shows a three-year trend of "Rural" sites. The data was collected from 52 of the same sites each month showing a combined Average Daily Traffic trend for three consecutive years. The volume of vehicles reported at "Rural" sites is normal from January through December of 2002 on state highways.

RURAL SITES TREND



This graph shows a three-year trend of "Rural" sites. The data was collected from 52 of the same sites each month showing a combined Average Daily Traffic trend for three consecutive years. The volume of vehicles reported at "Rural" sites is normal from January through December of 2002 on state highways.

URBAN SITES TREND



This graph shows a three-year trend of “Urban” sites. The data was collected from 18 of the same sites each month showing a combined Average Daily Traffic trend for three consecutive years. The downward trend in July reflects the normal summertime trend associated with motorists taking vacations and less daily commute traffic. The volume of vehicles reported from “Urban” sites is normal from January through December of 2002 on state highways.

SITE VARIANCE OR ANOMALY SUMMARY FOR DECEMBER

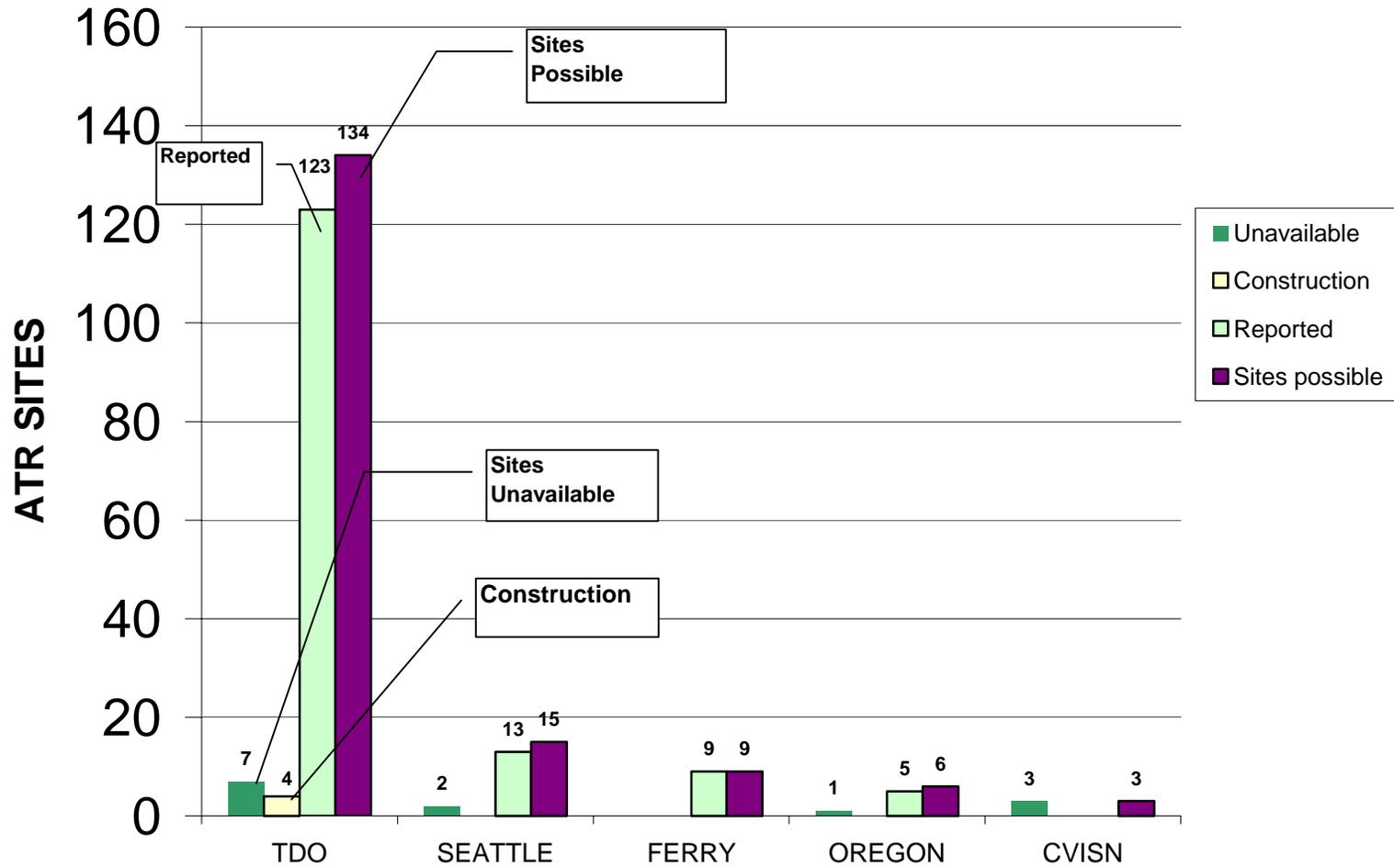
This list is a compilation of automated traffic recorder (ATR) sites with unusual and or abnormal traffic patterns for the month of December 2002. Included within this list are a site description for each automated traffic recorder site, a short statement of the reason for a large variance or anomaly, which occurred, and a conclusion.

The sites listed below reflect an increase in traffic over last December, which is believed to be due to a mild December, allowing traffic to freely cross back and forth over the passes. Most of these sites are major east/west corridor routes: (SR 2, I90, I82 & SR 12)

B04/SR90, P10/SR90, P7C/SR395, R014/SR90, R047S/SR97, R057/SR970, R064/SR2, S903/SR90, R059/SR97, R042/SR90, FY03/SR21, P14/SR195, P30/SR27, R048/SR82, SR40/SR12

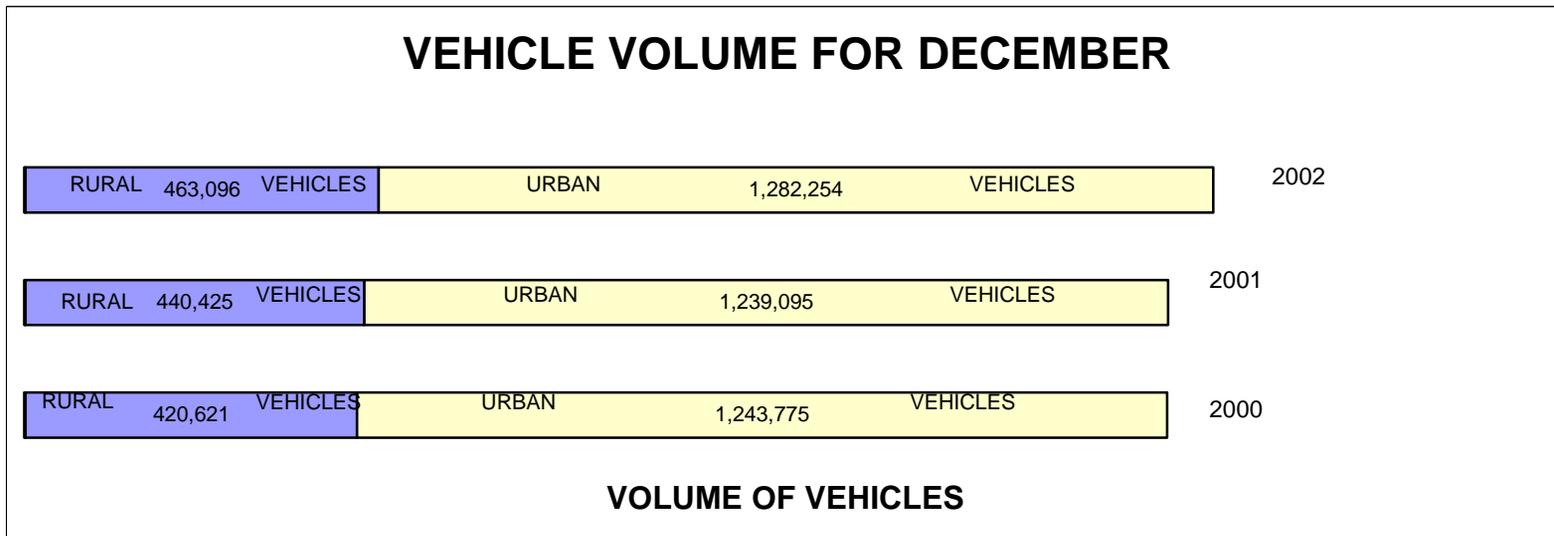
- **R038 – SR 2 Skykomish**
 - Traffic reflects a decrease from last December because this December was mild and last December had a good snow pack and recreational activity was good.
- **S189 - SR 5 N. of 222nd SW I/C**
 - No apparent reason
- **S840 – SR 504 – Kid Valley**
 - Less logging activity causing traffic volume to drop.
- **OR06 – SR 82 Oregon Border**
 - No apparent reason

DATA SUMMARY - DECEMBER 2002



DECEMBER VOLUME COMPARISON FOR 2000-2002

The volume of vehicles collected and reported for December is:



AUTOMATED TRAFFIC DATA COLLECTION REPORT DETAIL

The monthly Automated Traffic Data Collection Report is designed to provide reliable data to traffic engineers, state planners, traffic operations, other government agencies, regional administrators, the Washington State Patrol, private businesses and the citizens of Washington State. This report is administered and produced by the Transportation Data Office of the Washington State Department of Transportation.

This report is comprised of data collected from automated traffic recorders monitored by the ADC section, NW Regional Traffic Office, Washington State ferries division, Oregon State when available. The data has been validated and verified for this report; it has been processed through the **Transportation Information and Planning Support Systems (TRIPS)**.

The information within this report is:

- Average Daily Traffic (ADT)
- ADT compared to previous months for all comparable sites
- ADT compared to same month previous year
- Same month Percent Increase/Decrease
- Maximum Traffic/Maximum Day (by date, day and hour)
- Last possible month's percent of difference
- Missing data in month reported
- Last year same month

A legend is supplied for each page of listed site data.

The codes are:

- "U" = = unavailable
- "C" = = construction
- "E" = = estimated
- "N" = = new site to system
- "P" = = pass closed
- "I" = = partial estimation
- "Q" = = reported quarterly

For questions about this report or further site information, please contact the ADC section supervisor at 360-570-2392 or E mail this section at tdoadc@wsdot.wa.gov

STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION
 TRIPS SYSTEM
 AUTOMATED DATA COLLECTION REPORT

FOR THE MONTH OF DECEMBER 2002

RURAL RECORDERS				RELATION TO 2001		<<<<<<<<<< MAXIMUM TRAFFIC >>>>>>>>>>								
RECR	LOCATION	LEG SRMP	B	AVERAGE DAY	THIS	LAST 12	<<<< MAXIMUM HOUR >>>>			<<< MAXIMUM DAY >>>				
NUM				2002	2001	MONTH %	MONTHS %	VEHICLES	DAY	DATE	HOUR	VEHICLES	DAY	DATE
P18	SR 101 LILLIWAP			324.80	1,719	1,646	+ 4.4	+ 6.1	288	SUN	1 2- 3P	2,232	SUN	1
P21	SR 9 ARLINGTON		U	28.75		9,180		+ 1.2						
P22	SR 97 OROVILLE			335.30	1,708	1,658	+ 3.0	- 0.3	211	MON	30 1- 2P	2,098	FRI	20
P23	SR 97 OKANOGAN			286.15	3,401	3,231	+ 5.3	+ 6.7	411	FRI	27 3- 4P	4,079	FRI	20
P24	SR 90 STATELINE			298.40	41,813	38,208	+ 9.4	+ 4.3	4,621	SAT	21 2- 3P	53,377	FRI	20
P25	SR 21 WILBUR			91.55	277	297	- 6.7	- 5.0	42	SAT	21 11-12A	368	TUE	24
P26	SR 395 ORIENT			260.00	550	512	+ 7.4	- 0.2	70	THU	5 3- 4P	695	FRI	20
P27	SR 25 BOSSBURG			97.00	285	279	+ 2.2	+ 6.9	39	TUE	10 7- 8A	382	TUE	10
P28	SR 2 CHATTAROY		U	301.40		14,779		+ 0.5						
P30	SR 27 MICA			77.30	5,222	4,738	+ 10.2	+ 5.3	594	FRI	13 3- 4P	6,484	FRI	13
P7C	SR 395 RITZVILLE			93.01	5,696	4,997	+ 14.0	+ 5.2	1,319	SUN	1 2- 3P	10,892	SUN	1
P8	SR 5 KELSO			44.30	48,385	45,741	+ 5.8	+ 4.8	7,085	SUN	1 2- 3P	64,320	SUN	1
RO01	SR 5 MARYSVILLE			207.76	75,033				6,801	SUN	1 3- 4P	85,976	FRI	20
RO03	SR 101 MUD BAY	N		361.37	27,657	26,152	+ 5.8	+ 3.4	2,885	FRI	6 4- 5P	33,797	FRI	20
RO03	SR 101 MUD BAY	E		361.81	43,103	41,185	+ 4.7	+ 4.2	4,413	FRI	6 4- 5P	52,035	FRI	20
RO03	SR 8 MUD BAY	W		20.67	15,445	15,033	+ 2.7	+ 5.6	1,751	SUN	1 1- 2P	18,238	FRI	20
RO06	SR 12 WALLULA JUNCTION			307.90	5,340	5,229	+ 2.1	+ 1.9	685	SUN	1 3- 4P	6,734	SUN	1
RO14	SR 90 TYLER/FISHTRAP			254.23	13,424	11,731	+ 14.4	+ 4.3	2,958	SUN	1 2- 3P	28,040	SUN	1
RO19	SR 5 GRAND MOUND			86.32	56,364	52,889	+ 6.6	+ 4.5	5,783	SUN	1 2- 3P	69,296	SUN	1
RO20	SR 17 OTHELLO			30.37	4,285	4,272	+ 0.3	- 1.9	476	FRI	6 3- 4P	5,432	FRI	20
RO23	SR 101 DISCOVERY BAY			281.15	9,461	9,280	+ 2.0	+ 2.6	1,065	THU	26 1- 2P	11,575	THU	26
RO37	SR 20 WINTHROP			191.90	953	873	+ 9.2	+ 1.7	148	SUN	1 12- 1P	1,507	TUE	31
RO38	SR 2 SKYKOMISH			50.12	4,248	5,974	- 28.9	- 0.3	1,086	SUN	29 3- 4P	9,515	SUN	29
RO39	SR 90 NORTH BEND			33.56	25,848	28,669	- 9.8	+ 0.8	5,569	SUN	1 2- 3P	49,212	SUN	1

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RURAL RECORDERS				RELATION TO 2001		MAXIMUM TRAFFIC										
RECR	LOCATION	LEG SRMP	B/A	AVERAGE DAY	THIS	LAST 12	MAXIMUM HOUR			MAXIMUM DAY						
NUM				2002	MONTH %	MONTHS %	VEHICLES	DAY	DATE	VEHICLES	DAY	DATE				
RO40	SR 123 N/O SR 12 - OHANAPECOSH	N	3.88	P												
RO40	SR 12 PACKWOOD	W	135.10		1,121	1,203	- 6.8	+ 4.7	323	SUN	29	4- 5P	2,462	SUN	29	
RO41	SR 97 GOLDENDALE		13.41		3,651	3,288	+ 11.0	+ 3.2	738	SUN	1	2- 3P	5,763	SUN	1	
RO42	SR 90 VANTAGE		136.59		10,487	9,013	+ 16.4	+ 4.2	3,309	SUN	1	3- 4P	24,780	SUN	1	
RO43	SR 105 WESTPORT		30.73		4,654	C		+ 7.2	491	FRI	20	3- 4P	5,523	FRI	6	
RO45	SR 5 WOODLAND		20.14		60,914	57,450	+ 6.0	+ 5.7	6,809	SUN	1	2- 3P	73,031	SUN	1	
RO47	SR 2 DRYDEN	E	104.84		12,092	11,358	+ 6.5	+ 3.4	1,452	SUN	1	2- 3P	14,800	MON	23	
RO47	SR 97 BLEWETT PASS	S	178.19		3,715	3,366	+ 10.4	+ 5.4	700	SUN	1	2- 3P	5,848	SUN	1	
RO47	SR 2 PESHASTIN	W	103.92		10,334	9,755	+ 5.9	+ 4.0	1,104	THU	26	4- 5P	12,366	MON	23	
RO48	SR 82 E. OF SELAH CRK REST AREA		24.83		12,286	10,795	+ 13.8	+ 5.9	2,144	SUN	1	2- 3P	18,771	SUN	1	
RO54	SR 101 HUMPTULIPS		104.55		2,027	E>	1,982	+ 2.3	+ 2.1	212	THU	19	4- 5P	2,467	FRI	20
RO55	SR 90 MOSES LAKE		180.33	E>	7,193	7,199	- 0.1	+ 5.0								
RO57	SR 970 TEANAWAY		6.85		3,085	2,763	+ 11.7	+ 5.3	604	SUN	1	2- 3P	5,035	SUN	1	
RO58	SR 2 NASON RIDGE ROAD		80.20		2,872	3,000	- 4.3	+ 1.9	643	SUN	29	2- 3P	5,004	SUN	29	
RO61	SR 395 ELTOPIA		36.24		9,948	9,128	+ 9.0	+ 4.8	1,915	SUN	1	2- 3P	15,699	SUN	1	
RO63	SR 395 LOON LAKE		190.29	I>	7,550	7,214	+ 4.7	+ 5.1	760	FRI	6	4- 5P	9,113	MON	23	
RO64	SR 2 DAVENPORT		250.50		2,228	1,963	+ 13.5	+ 3.9	269	SUN	1	2- 3P	2,791	FRI	6	
RO66	SR 26 OTHELLO EAST		43.06		1,825				691	SUN	1	2- 3P	5,204	SUN	1	
RO67	SR 12 DODGE JUNCTION		390.66	U		1,560		+ 2.7								
RO68	SR 97 OMAK		293.42		4,061	3,784	+ 7.3	+ 1.5	426	TUE	3	3- 4P	4,913	FRI	6	
RO69	SR 101 PORT ANGELES		254.35		21,387	20,630	+ 3.7	+ 2.0	2,211	FRI	20	4- 5P	25,360	MON	23	
RO70	SR 395 KETTLE FALLS		234.57		7,062	6,819	+ 3.6	+ 1.3	806	MON	23	3- 4P	8,984	MON	23	
RO73	SR 101 SAPPHO		203.93		1,878	1,953	- 3.8	- 0.1	222	MON	23	3- 4P	2,324	MON	23	
RO74	SR 101 NEMAH		28.95		1,587	1,491	+ 6.4	+ 3.7	276	SUN	29	3- 4P	2,070	SAT	28	

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STATE OF WASHINGTON - DEPARTMENT OF TRANSPORTATION
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 AUTOMATED DATA COLLECTION REPORT

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FOR THE MONTH OF DECEMBER 2002

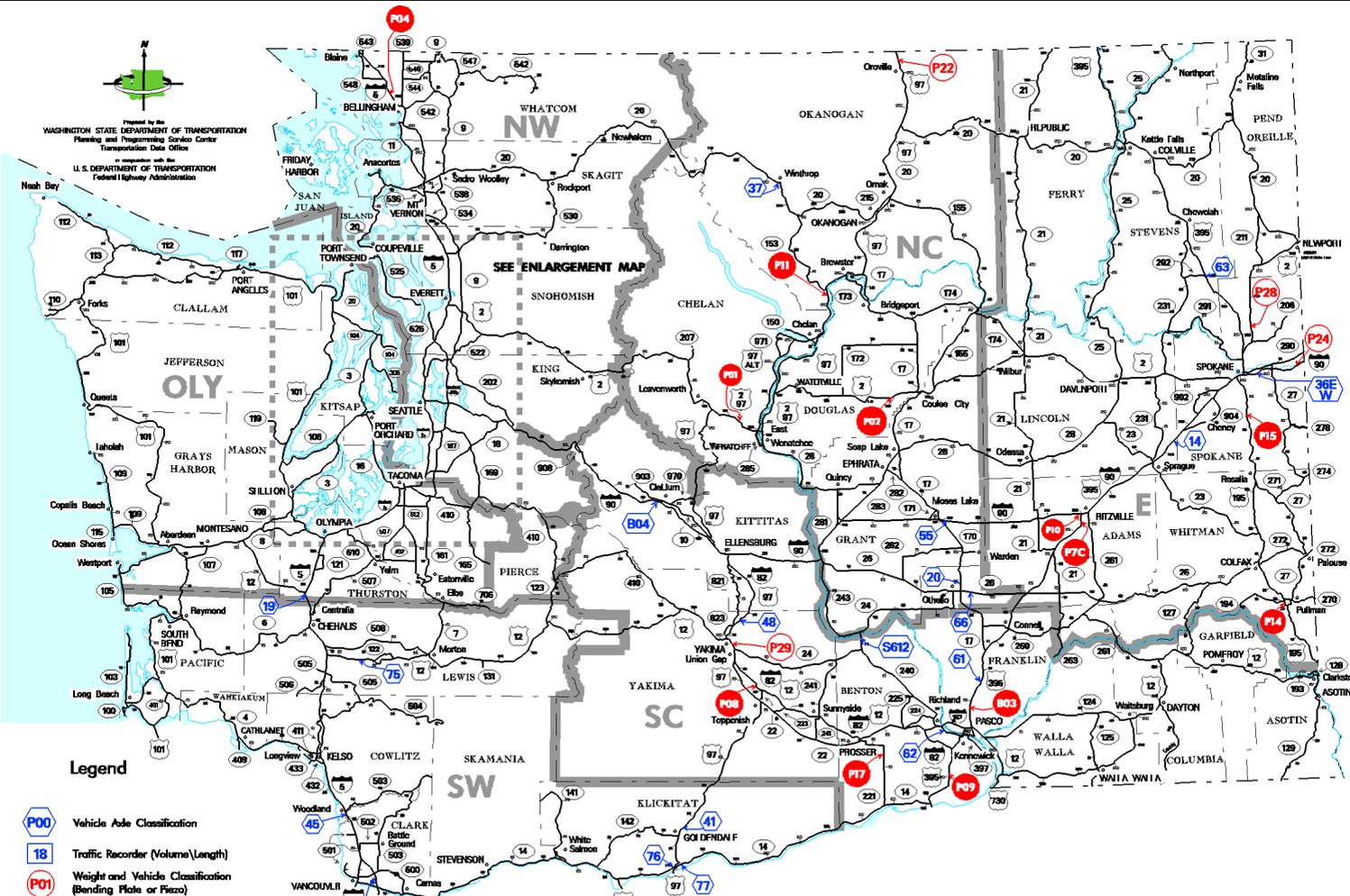
RECR NUM	RURAL RECORDERS		AVERAGE DAY		RELATION TO 2001		MAXIMUM TRAFFIC							
	LOCATION	LEG SRMP B	2002	2001	THIS MONTH %	LAST 12 MONTHS %	MAXIMUM HOUR			MAXIMUM DAY				
							VEHICLES	DAY	DATE	HOUR	VEHICLES	DAY	DATE	
S841	SR 101	ASTORIA/CHINOOK	0.47	4,448	D 4,324	+ 2.9	+ 4.5	554	MON	16	8- 9P	5,458	MON	23
S901	SR 90	TINKHAM RD	47.71	23,645	U	+ 4.9	+ 4.9	5,446	SUN	1	2- 3P	46,069	SUN	1
S902	SR 90	SNOQUALMIE SUMMIT	52.24	21,368	20,671	+ 3.5	+ 5.2	5,191	SUN	1	2- 3P	43,890	SUN	1
S903	SR 90	CABIN CREEK	63.98	20,931	18,523	+ 13.0	+ 4.8	5,243	SUN	1	2- 3P	44,692	SUN	1

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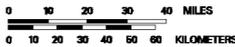
URBAN RECORDERS				RELATION TO 2001		<<<<<<<<<< MAXIMUM TRAFFIC >>>>>>>>>>								
RECR	LOCATION	LEG SRMP	B	AVERAGE DAY	THIS	LAST 12	<<<< MAXIMUM HOUR >>>>			<< MAXIMUM DAY >>				
NUM				2002	2001	MONTH %	MONTHS %	VEHICLES	DAY	DATE	DATE	VEHICLES	DAY	DATE
S201	SR 5 N 00 I-405/SR 518 I/C	155.38		234,736	U		+ 0.2	18,585	FRI	6 3- 4P		283,527	FRI	20
S202	SR 5 S. OF I-90/SR 518 I/C	162.35		234,673	U			17,760	WED	18 3- 4P		276,593	FRI	20
S203	SR 90 E.OF I-405 I/C	10.82		134,599	128,676	+ 3.8	+ 2.3	12,274	FRI	6 5- 6P		165,306	FRI	20
S204	SR 405 N. OF SE 8TH ST I/C	13.04		191,996	U		- 0.3	15,536	FRI	20 3- 4P		233,684	FRI	20
S205	SR 5 S. OF I-405/SR 518 I/C	153.48		252,966	U			17,859	FRI	20 2- 3P		291,351	FRI	20
S502	SR 520 E. OF I-5 I/C	0.00		53,624	U		- 23.3	4,485	THU	5 7- 8A		68,872	FRI	6
S503	SR 433 LONGVIEW(COL.R.BR.)	0.70		18,976	18,256	+ 3.9	+ 2.8	2,155	MON	23 3- 4P		23,746	MON	23
S533	SR 520 E. OF I-405 I/C	7.93		100,664	U		+ 6.3	8,315	TUE	10 8- 9A		120,703	THU	19
S547	SR 520 E. OF W.LK.SAMM.PK	12.01		62,688	60,052	+ 4.4	+ 1.6	5,651	THU	5 8- 9A		77,134	FRI	20
S809	SR 5 MIDWAY	148.07	C		U									
S821	SR 405 N.OF 30TH ST. I/C	6.95		134,853	U		+ 0.7	10,476	FRI	20 3- 4P		160,621	FRI	20
S822	SR 405 N. OF SR908 I/C	18.71		174,175	E>176,937	- 1.6	- 0.5	14,269	FRI	20 4- 5P		208,522	FRI	20
S824	SR 405 BOTHELL	28.99	C		C									
S825	SR 90 ISSAQUAH	14.65		102,785	103,145	- 0.3	+ 1.7	9,151	WED	18 5- 6P		125,945	FRI	20
S837	SR 5 FIFE	135.80		172,557	157,955	+ 9.2	+ 1.9	14,021	FRI	20 2- 3P		204,939	FRI	20
S839	SR 599 TUKWILA	1.40		34,217	33,403	+ 2.4	+ 2.0	4,216	WED	4 7- 8A		48,235	WED	4

Prepared by the
 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
 Planning and Programmatic Services Center
 Transportation Data Office
 in cooperation with the
 U.S. DEPARTMENT OF TRANSPORTATION
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Legend

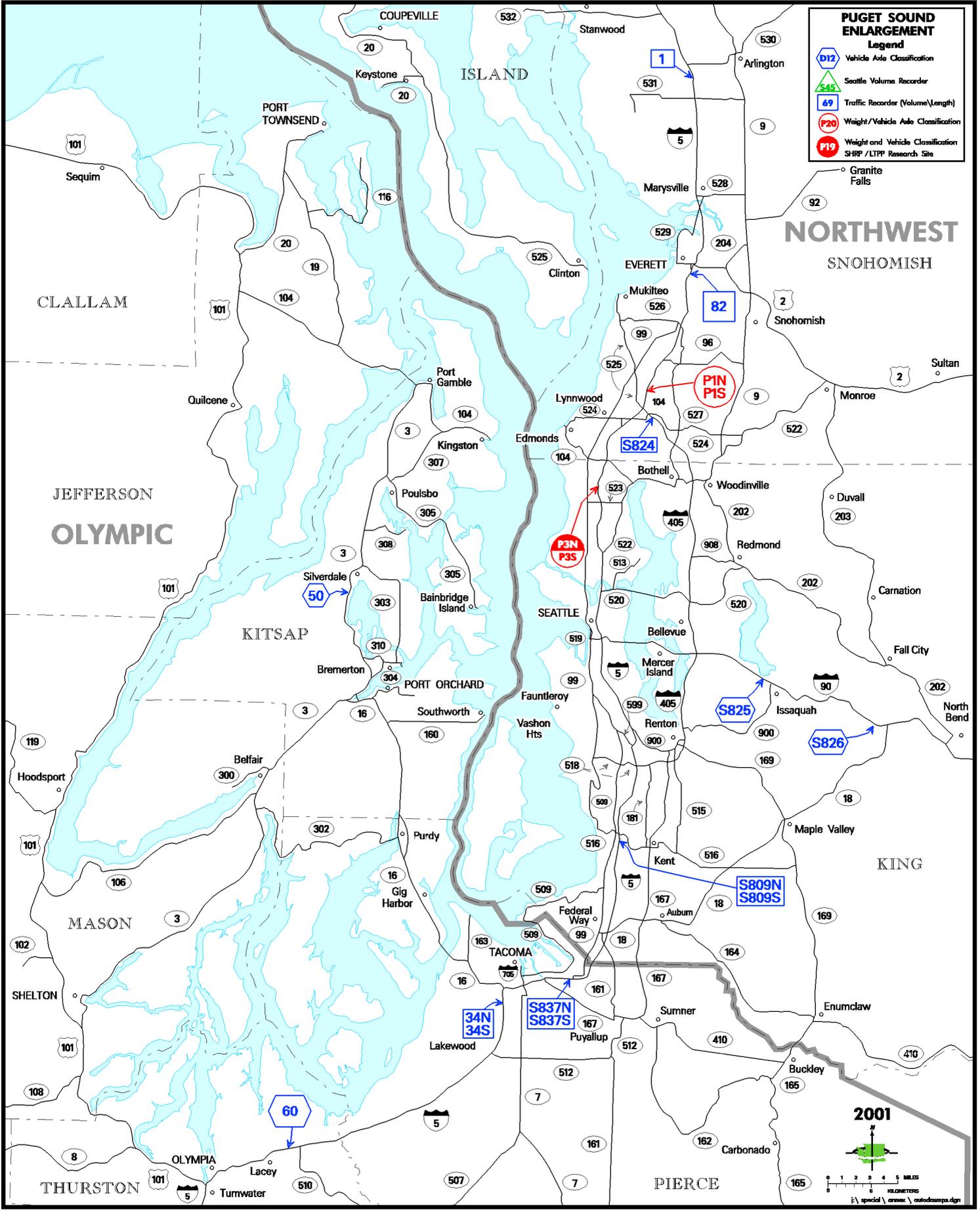
-  Vehicle Aisle Classification
-  Traffic Recorder (Volume/Length)
-  Weight and Vehicle Classification (Bending Plate or Piezo)
-  Weight and Vehicle Classification SHRP /LTP Research Site (Piezo or Bending Plate)
-  Interstate Route
-  U. S. Route
-  State Route



**Automated Data Collection Sites
 Washington State Highways
 2001**

PUGET SOUND ENLARGEMENT

- ### Legend
-  D12 Vehicle Axle Classification
 -  S45 Seattle Volume Recorder
 -  49 Traffic Recorder (Volume/Length)
 -  P20 Weight/Vehicle Axle Classification
 -  F19 Weight and Vehicle Classification SHRP / LTPP Research Site



2001



GLOSSARY

URBAN.....Of, relating to or constituting in city traffic

RURAL.....Of or relating to country traffic

COMBINED.....Total of urban and rural traffic

ATR.....Automated Traffic Recorder

ADC.....Automated Data Collection

ADT.....Average Daily Traffic

TRIPS.....Transportation Information and Planning Support System

SRMP.....State Route Mile Post

RECR NUM.....Automated Traffic Recorder Number

For answers to any questions about this report and or if you wish to have further a detailed report for one of the sites that the Automated Data Collection office (ADC) is currently monitoring, please call Tony Niemi at (360) 570-2392 or Pamela Pope at (360) 570-2396.

To obtain classification, length and or speed information please contact the ADC section of the Transportation Data Office at tdoadc@wsdot.wa.gov